INFORMATION REPORT

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COUNTRY | East Germany

Research Projects at the Bergakademie

25X1

PLACE ACQUIRED

SUBJECT

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25X1 The following list describes the research orders to be undertaken by the various schools of the Freiberg Metellurgical and Mining School (Mittenweson und Erzbergbau Bergakadanie Freiberg). It also stores allotted to the research project and the completion deadline.

L. School Section and Person in Charge of the Research

Project Humber

Pacinal Classification

Doscrimion

Institute for Coal Chemistry

Prof. Dr. (fnu) Lissner

150800 F2-08

(54)

To determine presence of rere metals in DDR lignite and mineral coal, with special emphosis on iodine content. The amount allotted was 35,000 east marks and the deadline was set for the fourth quarter of 1952

Institute for Mineralogy

150800 F2-51

(54)

Prof. Dr. Friedrich Lautwall

To neke geochemical tests on the origin of coal deposits. The amount allotted was 30,000 east mer's and the dead ine was set for the fourth quarter of 1952.

150800 F2-53 (55)

Mining geological tests on the DDR ore deposits, prinarily nonferrous de-posits. The arount alloted was 40,000 east marks and the deadline was sot for the fourth quarter of 1952.

CLASSIFICATION

SECRET

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Institute for Minerelogy Cont'd

150800 F2-52 (544.6) Development of special graph procedures; inslytic gracedures. The amount alletted was 30,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Applied Geophysics

Prof. Dr. (fnu) Buchheim

150800 F2-10 (550.83) Development of an electrical pressure scunding device (Drucksende) for insertion in holes made by hand drills underground as well as geophysical procedures and equipment for the control of ceiling pressure during mining. The amount allotted was 30,000 east marks and the deadline was set for the fourth quarter of 1952.

150800 F2-11 (550.83) Attempt to distinguish
metallic from electrolytic
conductors in the ground
during electric soundings
The answer allotted was 30,000
eact marks and the deadling
was set for the fourth quarter
of 1952.

150800 FR-22 (550.83) To attempt to localize the strata boundaries in mining wears of a seismographic robe. The amount allocated as 40,000 east marks.

Institute for Physica

Prof. Dr. (fnu) Liebold

150800 F2-54 (62) To measure the gamma rays in deep-well holes with a Geiger counter. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Coal Mining

Prof. Dr. (fmu) Fleischer

150800 F2-02 (62)

To develop a large model
for testing the load
someting and the pressure
distribution in soils of
various physical empositions,
mechanical mixtures, water
saturations, and degrees or
scappatiness. The amount
elicted was 30,000 cast marks
and the deadline was set for
the essent quarter of 1954.

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Institute for Coal Hining

- 150800 F2-03 (62) Research on the lead capacity of the soil in open-pit mining for the construction of large apparatuses. The amount allotted was 40,000 east marks, and the deadline was set for the fourth quarter of 1953.
- 150800 F2-04 (62) Research on the maximum size of enterprises in open-pit mining and briquet factories. The amount allotted was 170,000 east marks and the deadline was set for the fourth quarter of 1952.

Prof. (fnu) Kegel

150800 F2-05 (62) Tests on the importance of prescure conditions in loose rock and bed-rock especially in open-pit mining. The amount allotted was 27,000 east marks and the deadline was set for the fourth quarter of 1954.

Institute for Mining Science

Prof. Dr. (fmu) Spackeler

- 150800 F2-13 (62) Research on solid rock pressure in lignite deep mining and on the construction of underground pits in the open-pit mining of lignite. The amount allotted was 35,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-14 (62) Tests on the effect of the omplosives in blasting in volcanic matter and other rock.

 The amount allotted was 50,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150300 F2-15 (62) Tests on earth movements as the result of mining potash with the purpose of developing the mining process to prevent water seepage and the collection of explosive gases. The smount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1952.

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Institute for Mining Science (Cont'd)

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150800 F2-55

(62) Tests on the reaction of loose rock and lignite to freezing as a result of sinking shefts by the freezing process. The amount allotted was 25,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Weshing Cres

Prof. Dr. (fnu) Kirchberg

150800 F2-22

(62) Washing of complex lead, zinc, and pyrite ores for the purpose of improving the nonferrous metal base. The amount ellotted was 26,000 east marks and the deadline was set for the fourth quarter of 1952.

150800 F2-23

(63) Improvement of the yield and the enrichment process in the washing of DDR tin ores. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Metallography

Prof. Dr. Erdmann-Jesnitzer

150800 F2-30

(62) Investigation into the mature of the molecular ecostruction of molter motal and welfed metal surfaces. The amount allotted was 14,000 east marks and the deadline was set for the fourth quarter of 1953.

150800 F2-32

(62) Development of new kinds of jackets which are able to be easily produced for welding electrodes. The amount allotted was 13,000 east marks and the deadline was set for the fourth quarter of 1953.

150800 F2-35

(66) Research on statistical processes for welded frameworks in lightweight construction. The amount ellotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

SECRET

Institute for Metallography

150800 F2-36

(62) laking of corresion-resistant, netallis, non-metalloid coatings on metals and alloys by mienting the metal structures in relation to the surface to a protected. The amount llotted was 11,000 east marks and the deadline was set for the fourth quarter of 1952.

150300 F2-38

(62) Testing of boaring sockets

of small thickness in relation
to the effect of greasing
in order to save nonferrous
metals. The amount allotted
was 18,000 east marks and
the deadline was set for the
fourth quarter of 1952.

Briquet Institute

Frof. Dr. (fnu) Remader

150800 F2-45

(62) Comparison of gas drying and steam drying with respect to briquetting technique and thermal economy. The smount allotted was 20,000 east marks and the deadline was det for the fourth quarter of 1953.

150800 F2-46

(62) Laboratory tests on the wiring of aftertreatment apparatuses (after-drying, after-splitting, and cooling the coals) in briquet factories, especially for fine-grain briquetting. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Technical Analysis of Fuel

Prof. Dr. (fmu) Rammler

150800 F2-06

(66) Comparison of carbonization experiments using briquets, which are used in different carbonization experiments. The amount allotted was 26,000 east marks and the deadline was set for the fourth quarter of 1952,

150800 F2-07

(65) Comparison of carburetion experiments using "Generator" briquets coming from various scurces in a rotary-gratetype producer. The amount ellotted was AO,000 east marks and the deadline was set for the fourth quarter of 1952.

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Coranics Institute

Prof. Ir. (fmu) Haase

- 150800 F2-16 (66) Testing the voltages in convenic materials, especially porcelain, for high-tension lines and the development of a new means of measuring the voltage. No amount was allotted and the deadline was set for the fourth quarter of 1952.
- 150800 F2-17 (66) Tests on high temperature white glazing (weissdeckende Scharffeuerglasuren). The amount allotted was 8,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Metal Casting

Prof. Dr. (fnu) Netter

150800 F2-18

(66) Flow processes in cast iron grooves. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Washing Ores

Prof. Dr. (fmu) Kirchberg'

150800 82-20

(66) Systematic development of cation-active flotation material for the mechanical consentration of exite minerals. The amount allotted was 10,000 cast marks and the deadline was set for the third quarter of 1952.

150800 F2-21

fluorite by a modern washing process in order to reclaim relumble ruw material contained in the fluorite. The amount elletted was 25,000 eact marks and the deadline was set for

Institute for Metallurgy

Prof. Grad. Eng. (fnu) Lange

150800 F2-25

the fourth swarter of 1972.

(66) Tests on the dependence of the speed by which crude lead is refined on the exsenic, tin, and antimony content. The smount allotted was 7,000 tons and the deadline was set for the fourth quarter of 1955.

150800 F2-27

(66) Experimental and theoretical tests on the reworking of scrap metals, copper as well as lead, by the application of the vacuum technique. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Metallurgy (Cont'd)

150800 T2-28

- (66) Systematic experiments on the effect of lead dust, obtained while working lead, on rere metals which up to now have not been used, such as cadmium, thallium, tellurium, indium, and germanium for the purpose of using them. The amount allotted was 10,000 east marks and the deadline was set for the fourth querter of 1953.
- 150800 F2-29 (66) Application of washing processes on metallurgical by-products in order to make full use of them economically and technically. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

150800 F2-40 (66) Tests on the refractoriness of briquets. Development of a practical testing oven, based on the Werner oven, to judge independently the technical perfermance of the briquet while it is fired. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1953.

- 150800 F2-41 (65) Comparative test of various possible processes to determine the hardness of lignite and the relation of the hardness to the ability to be made into briquets. Clarification of the connection between hardness classification and ability to be made into briquets. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-43 (66) Influence of the preliminary coal's ability to be pressed into briquets and on the characteristics of the briquet. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-44 (66) Tests on the quality evaluation and the improvement of quality of briquets. The emount allotted was 25,000 east marks and the deadline was set for the fourth quarter of 1953.

Briquet Institute

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Institute for Metallography

Prof. Dr. (fnu) Erdmann-Jesnitzer

150800 32-34

(62) Tests on the reactions in high-voltage electric arcs. The amount allotted was 14,000 east marks and the deadline was set for the fourth quarter of 1953.

2. The following research projects have no set deadline:

150800 F2-26	Basic tests on the dezinging of desilvered load in a vacuum, as well as the improvement of the warling of zinc
	Year containing ware metal. if the occasion should arise, by vacuum treatment. The amount allotted was 3,000 east marks.

- 150800 F2-31 Comparative tests concerning the corresive action of welded seams and rivets to gas containers. The amount allotted was 5,000 east marks.
- 150800 F2-33 Experiments of lattice changes during plastic deformation of structural steels in the zone of spitical strain. The amount allotted was 3,000 east marks.
- 150800 F2-37

 Metallurgical research for reduction of the effect of exvitation in injection molding die easting by elimination of the effect of resonance from grain size. The small allotted was 4,000 east marks.
- 150800 F2-39 The effect of the composition of additive alloys and special pretreatment on the viscosity and mold filling properties of melten metals. The amount allotted was 5,000 east marks.
- 150800 F2-47 Tests to locate CO₂ deposits in potesh mining with geoelectric measuring methods. The amount allotted was 0,000 east marks.
- 150800 F2-48

 Development of an apparatus to determine the K20 scateat of core drillings. The amount allotted was 3,000 east marks.
- 150800 F2-49 Development of valve pipe "(Strobstron)" with a very short time **discharge** in order to strengthen yeter pipe impulses. The amount allotted was 4,000 east marks.
- 150800 F2-50 The stratigraphy of lignite on the basis of "pollon-analytischer" tests to determine the age of the coul located in central Germany.